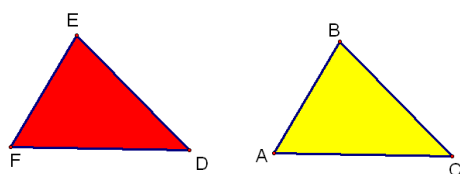


5.1 Congruence and Triangles

Figures are congruent if all of the corresponding angles and corresponding sides are congruent. (Same size and shape)



$$\triangle ABC \cong \triangle FED$$

$$\angle A \cong \angle F$$

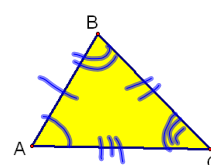
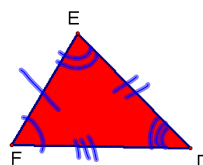
$$\angle B \cong \angle E$$

$$\angle C \cong \angle D$$

$$AB = FE$$

$$BC = ED$$

$$AC = FD$$



$$\triangle ABC \cong \triangle FED$$

Other ways to name the triangles:

$$\triangle BCA \cong \triangle EDF$$

$$\triangle CAB \cong \triangle DFE$$

$$\triangle ACB \cong \triangle FDE$$

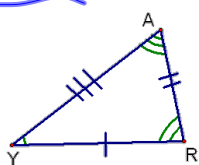
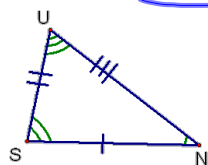
If $\triangle DUB \cong \triangle LIN$, then

$$\angle D \cong \angle L$$

$$\angle U \cong \angle I$$

$$\angle B \cong \angle N$$

Identify all the congruent parts.
Write a congruence statement.



$$\angle S \cong \angle R$$

$$\angle U \cong \angle A$$

$$\angle N \cong \angle Y$$

$$\triangle SUN \cong \triangle RAY$$

$$SN = RY$$

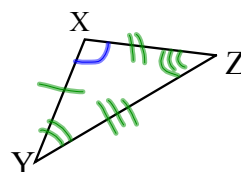
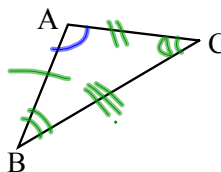
$$UN = YA$$

$$SU = RA$$

Mark the triangles. (All 6 parts)

$$\triangle ABC \cong \triangle XYZ$$

$$\angle A \cong \angle X$$



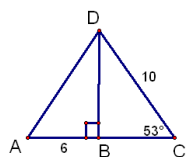
$$\triangle ABD \cong \triangle CBD$$

$$BC = 6$$

$$AD = 10$$

$$m\angle A = 53^\circ$$

$$m\angle DBC = 90^\circ$$



HW

~~p 236-238 #s 20, 40, 42, 43~~

Adjusted Hw

p236-238 #s 21-28, 33, 35, 37, 38, 42